

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A mold for manufacturing a metal-ceramic composite member by bringing a molten metal into contact with a ceramic member, comprising:

a support portion that is provided in said mold and in which the ceramic member is placed with a face of the ceramic member to be in contact with the molten metal facing upward and downward respectively; and

a first joining portion with a predetermined capacity of space that is provided between the face of the ceramic member being in contact with molten metal and facing upward and an inner wall of said mold and in which the molten metal is poured and filled; and

a second joining portion with a predetermined capacity of space that is provided between the face of the ceramic member being in contact with the molten metal and facing downward and the inner wall of said mold and in which the molten metal is poured and filled,

wherein a molten metal runner provided in an upper part of said first joining portion is connected to said first joining portion, and in said first joining portion, the molten metal runner is provided from one side toward the second joining portion, so as to avoid an outlet of the molten metal runner.

~~—— a joining portion with a predetermined capacity that is provided between the face of the ceramic member being in contact with the molten metal and an inner wall of said mold and in which the molten metal is poured and filled.~~

2. (Currently Amended) A mold for manufacturing a metal-ceramic composite member according to claim 1, wherein the metal molten runner provided in the upper part of said first joining portion is connected to said first joining portion through a narrow portion. ~~by bringing a molten metal into contact with a ceramic member, comprising:~~

~~—— a support portion provided in said mold and in which the ceramic member is placed with faces of the ceramic member to be in contact with the molten metal facing upward and downward respectively;~~

~~—— a first joining portion with a predetermined capacity of space that is provided between the face of the ceramic member being in contact with the molten metal and facing upward and an inner wall of said mold and in which the molten metal is poured and filled; and~~

~~—— a second joining portion with a predetermined capacity of space that is provided between the face of the ceramic member being in contact with the molten metal and facing downward and the inner wall of said mold and in which the molten metal is poured and filled.~~

3. (Previously Presented) A mold for manufacturing a metal-ceramic composite member according to claim 1, further comprising

a shrinkage cavity inducing portion provided adjacent to said joining portion.

4. (Currently Amended) A ~~method~~mold for manufacturing a metal-ceramic composite member, ~~comprising according to claim 1, wherein the ceramic member is a ceramic substrate.~~

~~—— pouring a predetermined amount of the molten metal into the mold according to claim 3;~~

~~—— thereafter, cooling the molten metal from under the mold to solidify the mold; and~~

~~—— inducing shrinkage cavity to be generated in the shrinkage cavity inducing portion.~~

5. (Original) A method for manufacturing a metal-ceramic composite member by bringing a molten metal into contact with a ceramic member, ~~using a mold comprising; wherein the molten metal is poured and filled first in the first joining portion and next is poured and filled in the second joining portion when the molten metal is poured and filled in the first and second joining portions by using the mold according to claim 1.~~

~~—— a support portion that is provided in the mold and in which the ceramic member is placed with faces of the ceramic member to be in contact with the molten metal facing upward and downward respectively;~~

~~—— a first joining portion with a predetermined capacity of space that is provided between the face of the ceramic member being in contact with the molten metal and facing upward and an inner wall of the mold and in which the molten metal is poured and filled; and~~

~~—— a second joining portion with a predetermined capacity of space that is provided between the face of the ceramic member being in contact with the molten metal and facing downward and the inner wall of the mold and in which the molten metal is poured and filled;~~

~~—— wherein the molten metal is poured and filled first in the first joining portion when the molten metal is poured and filled in the first and the second joining portion.~~

6. (Canceled)

7. (New) A method for manufacturing a metal-ceramic composite member by bringing a molten metal into contact with a ceramic member, wherein the molten metal is passed through the narrow portion first, and thereafter is poured and filled in the first joining portion, and next is poured and filled in the second joining portion, when the molten metal is poured and filled in the first and the second joining portions by using the mold according to claim 2.

8. (New) A method for manufacturing a metal-ceramic composite member by bringing a molten metal into contact with a ceramic member, wherein the molten metal is poured and filled in the first joining portion first, or is passed through the narrow portion and thereafter is poured and filled in the first joining portion, and next is poured and filled in the second joining portion, when the molten metal is poured and filled in the first and second joining portions by using the mold according to claim 3, and after a predetermined amount of molten metal is poured in the mold, the molten metal is cooled and solidified from a lower

part of the mold, whereby a shrinkage cavity is generated in the shrinkage cavity inducing portion.

9. (New) A method for manufacturing a metal-ceramic composite member according to claim 5, wherein the ceramic member is a ceramic substrate.

10. (New) A mold for manufacturing a metal-ceramic composite member according to claim 2, further comprising

a shrinkage cavity inducing portion provided adjacent to said joining portion

11. (New) A mold for manufacturing a metal-ceramic composite member according to claim 2, wherein the ceramic member is ceramic substrate.

12. (New) A mold for manufacturing a metal-ceramic composite member according to claim 3, wherein the ceramic member is ceramic substrate.

13. (New) A method of manufacturing a metal-ceramic composite member according to claim 5, wherein the ceramic member is a ceramic substrate.

14. (New) A method of manufacturing a metal-ceramic composite member according to claim 7, wherein the ceramic member is a ceramic substrate.

15. (New) A method of manufacturing a metal-ceramic composite member according to claim 8, wherein the ceramic member is a ceramic substrate.